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<400> 2

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Leu Trp Leu Gly Ala Leu Ala Gly Gly Pro Gly Arg Gly Cys Gly Pro
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Cys Glu Pro Pro Cys Leu Cys Gly Pro Ala Pro Gly Ala Ala Cys Arg
35 40 45

Val Asn Cys Ser Gly Arg Gly Leu Arg Thr Leu Gly Pro Ala Leu Arg

Leu Glu Ala Ala Tyr Ser Ile Val Ala Leu Gly Glu Glu Pro Ala Arg
 385 390 395 400
 Ala Val His Pro Leu Cys Pro Ser Asp Thr Glu Ile Phe Pro Gly Asn
 405 410 415
 Gly His Cys Tyr Arg Leu Val Val Glu Lys Ala Ala Trp Leu Gln Ala
 420 425 430
 Gln Glu Gln Cys Gln Ala Trp Ala Gly Ala Ala Leu Ala Met Val Asp
 435 440 445
 Ser Pro Ala Val Gln Arg Phe Leu Val Ser Arg Val Thr Arg Ser Leu
 450 455 460
 Asp Val Trp Ile Gly Phe Ser Thr Val Gln Gly Val Glu Val Gly Pro
 465 470 475 480
 Ala Pro Gln Gly Glu Ala Phe Ser Leu Glu Ser Cys Gln Asn Trp Leu
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 Pro Gly Glu Pro His Pro Ala Thr Ala Glu His Cys Val Arg Leu Gly
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 Pro Thr Gly Trp Cys Asn Thr Asp Leu Cys Ser Ala Pro His Ser Tyr
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 Val Cys Glu Leu Gln Pro Gly Gly Pro Val Gln Asp Ala Glu Asn Leu
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 Leu Val Gly Ala Pro Ser Gly Asp Leu Gln Gly Pro Leu Thr Pro Leu
 545 550 555 560
 Ala Gln Gln Asp Gly Leu Ser Ala Pro His Glu Pro Val Glu Val Met
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 Val Phe Pro Gly Leu Arg Leu Ser Arg Glu Ala Phe Leu Thr Thr Ala
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 Glu Phe Gly Thr Gln Glu Leu Arg Arg Pro Ala Gln Leu Arg Leu Gln
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 Val Tyr Arg Leu Leu Ser Thr Ala Gly Thr Pro Glu Asn Gly Ser Glu
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Pro Pro Tyr Asn Glu Ser Phe Pro Val Pro Asp Pro Ser Val Ala				
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Gln Val Leu Val Glu His Asn Val Thr His Thr Tyr Ala Ala Pro				
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Gly Glu Tyr Leu Leu Thr Val Leu Ala Ser Asn Ala Phe Glu Asn				
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Leu Thr Gln Gln Val Pro Val Ser Val Arg Ala Ser Leu Pro Ser				
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Val Ala Val Gly Val Ser Asp Gly Val Leu Val Ala Gly Arg Pro				
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Val Thr Phe Tyr Pro His Pro Leu Pro Ser Pro Gly Gly Val Leu				
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Tyr Thr Trp Asp Phe Gly Asp Gly Ser Pro Val Leu Thr Gln Ser				
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Gln Pro Ala Ala Asn His Thr Tyr Ala Ser Arg Gly Thr Tyr His				
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Val Arg Leu Glu Val Asn Asn Thr Val Ser Gly Ala Ala Ala Gln				
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1220		1225		1230
Ala Val Gln Thr Gly Asp Asn Ile Thr Trp Thr Phe Asp Met Gly				
1235		1240		1245
Asp Gly Thr Val Leu Ser Gly Pro Glu Ala Thr Val Glu His Val				
1250		1255		1260
Tyr Leu Arg Ala Gln Asn Cys Thr Val Thr Val Gly Ala Gly Ser				
1265		1270		1275
Pro Ala Gly His Leu Ala Arg Ser Leu His Val Leu Val Phe Val				
1280		1285		1290
Leu Glu Val Leu Arg Val Glu Pro Ala Ala Cys Ile Pro Thr Gln				
1295		1300		1305
Pro Asp Ala Arg Leu Thr Ala Tyr Val Thr Gly Asn Pro Ala His				
1310		1315		1320
Tyr Leu Phe Asp Trp Thr Phe Gly Asp Gly Ser Ser Asn Thr Thr				
1325		1330		1335

Val Arg Gly Cys Pro Thr	Val Thr His Asn Phe Thr	Arg Ser Gly
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Thr Phe Pro Leu Ala Leu	Val Leu Ser Ser Arg Val	Asn Arg Ala
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His Tyr Phe Thr Ser Ile	Cys Val Glu Pro Glu Val	Gly Asn Val
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Thr Leu Gln Pro Glu Arg	Gln Phe Val Gln Leu Gly	Asp Glu Ala
1385	1390	1395
Trp Leu Val Ala Cys Ala	Trp Pro Pro Phe Pro Tyr	Arg Tyr Thr
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Trp Asp Phe Gly Thr Glu	Glu Ala Ala Pro Thr Arg	Ala Arg Gly
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Pro Glu Val Thr Phe Ile	Tyr Arg Asp Pro Gly Ser	Tyr Leu Val
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Thr Val Thr Ala Ser Asn	Asn Ile Ser Ala Ala Asn	Asp Ser Ala
1445	1450	1455
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1460	1465	1470
Asn Gly Ser Leu Gly Leu	Glu Leu Gln Gln Pro Tyr	Leu Phe Ser
1475	1480	1485
Ala Val Gly Arg Gly Arg	Pro Ala Ser Tyr Leu Trp	Asp Leu Gly
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Asp Gly Gly Trp Leu Glu	Gly Pro Glu Val Thr His	Ala Tyr Asn
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Ser Thr Gly Asp Phe Thr	Val Arg Val Ala Gly Trp	Asn Glu Val
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Ser Arg Ser Glu Ala Trp	Leu Asn Val Thr Val Lys	Arg Arg Val
1535	1540	1545
Arg Gly Leu Val Val Asn	Ala Ser Arg Thr Val Val	Pro Leu Asn
1550	1555	1560
Gly Ser Val Ser Phe Ser	Thr Ser Leu Glu Ala Gly	Ser Asp Val
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Arg Tyr Ser Trp Val Leu	Cys Asp Arg Cys Thr Pro	Ile Pro Gly
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Gly Pro Thr Ile Ser Tyr	Thr Phe Arg Ser Val Gly	Thr Phe Asn
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Ile Ile Val Thr Ala Glu	Asn Glu Val Gly Ser Ala	Gln Asp Ser
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1940	1945	1950
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Glu Ala Val Ser Gly Leu Gln 1970	Val Pro Asn Cys 1975	Cys Glu Pro Gly 1980
Ile Ala Thr Gly Thr Glu Arg 1985	Asn Phe Thr Ala 1990	Arg Val Gln Arg 1995
Gly Ser Arg Val Ala Tyr Ala 2000	Trp Tyr Phe Ser 2005	Leu Gln Lys Val 2010
Gln Gly Asp Ser Leu Val Ile 2015	Leu Ser Gly Arg 2020	Asp Val Thr Tyr 2025
Thr Pro Val Ala Ala Gly Leu 2030	Leu Glu Ile Gln 2035	Val Arg Ala Phe 2040
Asn Ala Leu Gly Ser Glu Asn 2045	Arg Thr Leu Val 2050	Leu Glu Val Gln 2055
Asp Ala Val Gln Tyr Val Ala 2060	Leu Gln Ser Gly 2065	Pro Cys Phe Thr 2070
Asn Arg Ser Ala Gln Phe Glu 2075	Ala Ala Thr Ser 2080	Pro Ser Pro Arg 2085
Arg Val Ala Tyr His Trp Asp 2090	Phe Gly Asp Gly 2095	Ser Pro Gly Gln 2100
Asp Thr Asp Glu Pro Arg Ala 2105	Glu His Ser Tyr 2110	Leu Arg Pro Gly 2115
Asp Tyr Arg Val Gln Val Asn 2120	Ala Ser Asn Leu 2125	Val Ser Phe Phe 2130
Val Ala Gln Ala Thr Val Thr 2135	Val Gln Val Leu 2140	Ala Cys Arg Glu 2145
Pro Glu Val Asp Val Val Leu 2150	Pro Leu Gln Val 2155	Leu Met Arg Arg 2160
Ser Gln Arg Asn Tyr Leu Glu 2165	Ala His Val Asp 2170	Leu Arg Asp Cys 2175
Val Thr Tyr Gln Thr Glu Tyr 2180	Arg Trp Glu Val 2185	Tyr Arg Thr Ala 2190
Ser Cys Gln Arg Pro Gly Arg 2195	Pro Ala Arg Val 2200	Ala Leu Pro Gly 2205
Val Asp Val Ser Arg Pro Arg 2210	Leu Val Leu Pro 2215	Arg Leu Ala Leu 2220
Pro Val Gly His Tyr Cys Phe 2225	Val Phe Val Val 2230	Ser Phe Gly Asp 2235
Thr Pro Leu Thr Gln Ser Ile 2240	Gln Ala Asn Val 2245	Thr Val Ala Pro 2250

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2285			2290			2295		
Ala Cys	Val Ala	Ser Thr	Gln	Arg Glu	Ala Gly	Gly	Cys Ala	Leu
2300			2305			2310		
Asn Phe	Gly Pro	Arg Gly	Ser	Ser Thr	Val Thr	Ile	Pro Arg	Glu
2315			2320			2325		
Arg Leu	Ala Ala	Gly Val	Glu	Tyr Thr	Phe Ser	Leu	Thr Val	Trp
2330			2335			2340		
Lys Ala	Gly Arg	Lys Glu	Glu	Ala Thr	Asn Gln	Thr	Val Leu	Ile
2345			2350			2355		
Arg Ser	Gly Arg	Val Pro	Ile	Val Ser	Leu Glu	Cys	Val Ser	Cys
2360			2365			2370		
Lys Ala	Gln Ala	Val Tyr	Glu	Val Ser	Arg Ser	Ser	Tyr Val	Tyr
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Leu Glu	Gly Arg	Cys Leu	Asn	Cys Ser	Ser Gly	Ser	Lys Arg	Gly
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2405			2410			2415		
Glu Thr	Thr Thr	Ser Thr	Gly	Ser Ala	Gly Met	Arg	Leu Val	Leu
2420			2425			2430		
Arg Arg	Gly Val	Leu Arg	Asp	Gly Glu	Gly Tyr	Thr	Phe Thr	Leu
2435			2440			2445		
Thr Val	Leu Gly	Arg Ser	Gly	Glu Glu	Glu Gly	Cys	Ala Ser	Ile
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Arg Leu	Ser Pro	Asn Arg	Pro	Pro Leu	Gly Gly	Ser	Cys Arg	Leu
2465			2470			2475		
Phe Pro	Leu Gly	Ala Val	His	Ala Leu	Thr Thr	Lys	Val His	Phe
2480			2485			2490		
Glu Cys	Thr Gly	Trp His	Asp	Ala Glu	Asp Ala	Gly	Ala Pro	Leu
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Val Tyr	Ala Leu	Leu Leu	Arg	Arg Cys	Arg Gln	Gly	His Cys	Glu
2510			2515			2520		
Glu Phe	Cys Val	Tyr Lys	Gly	Ser Leu	Ser Ser	Tyr	Gly Ala	Val
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Leu Pro	Pro Gly	Phe Arg	Pro	His Phe	Glu Val	Gly	Leu Ala	Val
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2570						2575					2580			
Leu	Thr	Val	Trp	Leu	His	Gly	Leu	Thr	Ala	Ser	Val	Leu	Pro	Gly
2585						2590					2595			
Leu	Leu	Arg	Gln	Ala	Asp	Pro	Gln	His	Val	Ile	Glu	Tyr	Ser	Leu
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2630						2635					2640			
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Asp	Asp	Ile	Gln	Gln	Ile	Ala	Ala	Ala	Leu	Ala	Gln	Cys	Met	Gly
2660						2665					2670			
Pro	Ser	Arg	Glu	Leu	Val	Cys	Arg	Ser	Cys	Leu	Lys	Gln	Thr	Leu
2675						2680					2685			
His	Lys	Leu	Glu	Ala	Met	Met	Leu	Ile	Leu	Gln	Ala	Glu	Thr	Thr
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	2900					2905					2910				
Ser	Asn	Pro	Ala	Ala	Gly	Leu	His	Leu	Gln	Leu	Asn	Tyr	Thr	Leu	
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Gly	Ser	Tyr	His	Leu	Asn	Leu	Ser	Ser	His	Phe	Arg	Trp	Ser	Ala	
	2990					2995					3000				
Leu	Gln	Val	Ser	Val	Gly	Leu	Tyr	Thr	Ser	Leu	Cys	Gln	Tyr	Phe	
	3005					3010					3015				
Ser	Glu	Glu	Asp	Met	Val	Trp	Arg	Thr	Glu	Gly	Leu	Leu	Pro	Leu	
	3020					3025					3030				
Glu	Glu	Thr	Ser	Pro	Arg	Gln	Ala	Val	Cys	Leu	Thr	Arg	His	Leu	
	3035					3040					3045				
Thr	Ala	Phe	Gly	Ala	Ser	Leu	Phe	Val	Pro	Pro	Ser	His	Val	Arg	
	3050					3055					3060				
Phe	Val	Phe	Pro	Glu	Pro	Thr	Ala	Asp	Val	Asn	Tyr	Ile	Val	Met	
	3065					3070					3075				
Leu	Thr	Cys	Ala	Val	Cys	Leu	Val	Thr	Tyr	Met	Val	Met	Ala	Ala	
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Asp	Lys	His	Ile	Trp	Leu	Ser	Ile	Trp	Asp	Arg	Pro	Pro	Arg	Ser
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3350						3355					3360			
Val	Leu	Asp	Ile	Asp	Ser	Cys	Leu	Asp	Ser	Ser	Val	Leu	Asp	Ser
3365						3370					3375			
Ser	Phe	Leu	Thr	Phe	Ser	Gly	Leu	His	Ala	Glu	Gln	Ala	Phe	Val
3380						3385					3390			
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Asp	Glu	Asp	Leu	Ile	Gln	Gln	Val	Leu	Ala	Glu	Gly	Val	Ser	Ser
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Ser	Leu	Ser	Ser	Thr	Pro	Gly	Glu	Lys	Thr	Glu	Thr	Leu	Ala	Leu
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Gln	Arg	Leu	Gly	Glu	Leu	Gly	Pro	Pro	Ser	Pro	Gly	Leu	Asn	Trp
3515						3520					3525			
Glu	Gln	Pro	Gln	Ala	Ala	Arg	Leu	Ser	Arg	Thr	Gly	Leu	Val	Glu
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Gly	Leu	Arg	Lys	Arg	Leu	Leu	Pro	Ala	Trp	Cys	Ala	Ser	Leu	Ala
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His	Gly	Leu	Ser	Leu	Leu	Leu	Val	Ala	Val	Ala	Val	Ala	Val	Ser
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Gly	Trp	Val	Gly	Ala	Ser	Phe	Pro	Pro	Gly	Val	Ser	Val	Ala	Trp
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Leu	Leu	Ser	Ser	Ser	Ala	Ser	Phe	Leu	Ala	Ser	Phe	Leu	Gly	Trp
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Glu	Pro	Leu	Lys	Val	Leu	Leu	Glu	Ala	Leu	Tyr	Phe	Ser	Leu	Val
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3680						3685					3690			
Cys	His	Gly	His	Ala	Tyr	Arg	Leu	Gln	Ser	Ala	Ile	Lys	Gln	Glu
3695						3700					3705			
Leu	His	Ser	Arg	Ala	Phe	Leu	Ala	Ile	Thr	Arg	Ser	Glu	Glu	Leu
3710						3715					3720			
Trp	Pro	Trp	Met	Ala	His	Val	Leu	Leu	Pro	Tyr	Val	His	Gly	Asn
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Gln	Ser	Ser	Pro	Glu	Leu	Gly	Pro	Pro	Arg	Leu	Arg	Gln	Val	Arg
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Leu	Gln	Glu	Ala	Leu	Tyr	Pro	Asp	Pro	Pro	Gly	Pro	Arg	Val	His
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Thr	Cys	Ser	Ala	Ala	Gly	Gly	Phe	Ser	Thr	Ser	Asp	Tyr	Asp	Val

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Gly Trp	Glu Ser Pro His	Asn	Gly Ser Gly Thr	Trp Ala Tyr Ser
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Ala Pro	Asp Leu Leu Gly	Ala	Trp Ser Trp Gly	Ser Cys Ala Val
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Tyr Asp	Ser Gly Gly Tyr	Val	Gln Glu Leu Gly	Leu Ser Leu Glu
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Glu Ser	Arg Asp Arg Leu	Arg	Phe Leu Gln Leu	His Asn Trp Leu
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Asp Asn	Arg Ser Arg Ala	Val	Phe Leu Glu Leu	Thr Arg Tyr Ser
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Pro Ala	Val Gly Leu His	Ala	Ala Val Thr Leu	Arg Leu Glu Phe
3860		3865		3870
Pro Ala	Ala Gly Arg Ala	Leu	Ala Ala Leu Ser	Val Arg Pro Phe
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Ser Val	Cys Leu Leu Leu	Phe	Ala Val His Phe	Ala Val Ala Glu
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Ala Arg	Thr Trp His Arg	Glu	Gly Arg Trp Arg	Val Leu Arg Leu
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Gly Ala	Trp Ala Arg Trp	Leu	Leu Val Ala Leu	Thr Ala Ala Thr
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Ala Leu	Val Arg Leu Ala	Gln	Leu Gly Ala Ala	Asp Arg Gln Trp
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Thr Arg	Phe Val Arg Gly	Arg	Pro Arg Arg Phe	Thr Ser Phe Asp
3965		3970		3975
Gln Val	Ala His Val Ser	Ser	Ala Ala Arg Gly	Leu Ala Ala Ser
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Leu Leu	Phe Leu Leu Leu	Val	Lys Ala Ala Gln	His Val Arg Phe
3995		4000		4005
Val Arg	Gln Trp Ser Val	Phe	Gly Lys Thr Leu	Cys Arg Ala Leu
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Pro Glu	Leu Leu Gly Val	Thr	Leu Gly Leu Val	Val Leu Gly Val
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Ala Tyr	Ala Gln Leu Ala	Ile	Leu Leu Val Ser	Ser Cys Val Asp
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Ser Leu	Trp Ser Val Ala	Gln	Ala Leu Leu Val	Leu Cys Pro Gly
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Arg Gly Glu Leu Tyr Arg Pro Ala Trp Glu Pro Gln Asp Tyr Glu
4115 4120 4125

Met Val Glu Leu Phe Leu Arg Arg Leu Arg Leu Trp Met Gly Leu
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Ser Lys Val Lys Glu Phe Arg His Lys Val Arg Phe Glu Gly Met
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Glu Pro Leu Pro Ser Arg Ser Ser Arg Gly Ser Lys Val Ser Pro
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Asp Val Pro Pro Pro Ser Ala Gly Ser Asp Ala Ser His Pro Ser
4175 4180 4185

Thr Ser Ser Ser Gln Leu Asp Gly Leu Ser Val Ser Leu Gly Arg
4190 4195 4200

Leu Gly Thr Arg Cys Glu Pro Glu Pro Ser Arg Leu Gln Ala Val
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Phe Glu Ala Leu Leu Thr Gln Phe Asp Arg Leu Asn Gln Ala Thr
4220 4225 4230

Glu Asp Val Tyr Gln Leu Glu Gln Gln Leu His Ser Leu Gln Gly
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Arg Arg Ser Ser Arg Ala Pro Ala Gly Ser Ser Arg Gly Pro Ser
4250 4255 4260

Pro Gly Leu Arg Pro Ala Leu Pro Ser Arg Leu Ala Arg Ala Ser
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